

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/055196 A3**

(51) International Patent Classification<sup>7</sup>: **G06F 17/30**

(21) International Application Number:  
**PCT/IB2004/052601**

(22) International Filing Date:  
30 November 2004 (30.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/527,476 5 December 2003 (05.12.2003) US  
04100622.2 17 February 2004 (17.02.2004) EP

(71) Applicant (for all designated States except US): **KONINKLUKE PHILIPS ELECTRONICS N.V.** [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DIMITROVA, Nevenka** [MK/US]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **TURETSKY, Robert** [US/US]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agents: **GROENENDAAL, Antonius, W., M. et al.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
23 February 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



**WO 2005/055196 A3**

(54) Title: **SYSTEM & METHOD FOR INTEGRATIVE ANALYSIS OF INTRINSIC AND EXTRINSIC AUDIO-VISUAL DATA**

(57) Abstract: A system is provided for integrative analysis of intrinsic and extrinsic audiovisual information, such as a system for analysis and correlation of features in a film with features not present in the film but available through the Internet. The system comprises an intrinsic content analyser communicatively connected to an audio-visual source, e.g. a film source, for searching the film for intrinsic data and extracting the intrinsic data using an extraction algorithm. Further, the system comprises an extrinsic content analyser communicatively connected to an extrinsic information source, such as a film screenplay available through the Internet, for searching the extrinsic information source and retrieving extrinsic data using a retrieval algorithm. The intrinsic data and the extrinsic data are correlated in a multisource data structure. The multisource data structure being transformed into high-level information structure which is presented to a user of the system. The user may browse the high-level information structure for such information as the actor identification in a film.